



## Infrared Array Camera (IRAC)



- ◆ **PI** - Giovanni Fazio, Harvard/SAO
- ◆ **Contractor** - Goddard Space Flight Center
- ◆ **Key Features:**
  - *Wide field imaging in four bands centered at 3.6, 4.5, 5.8, and 8  $\mu$ m*
    - ◆ 5x5 arc min field of view in each band with 1.2 arcsec pixels
    - ◆ Two adjacent fields observed simultaneously; each is viewed in two bands [3.6/5.8  $\mu$ m, 4.5/8  $\mu$ m] by using dichroic beamsplitters
  - *Four 256x256 SBRC arrays: two each of InSb and Si:As*
  - *Cold shutter for determination of dark current and total sky brightness*
  - *Subarray mode for short integrations to improve dynamic range*
  - *Internal flood and transmission calibrators*
- ◆ **Performance:**
  - *Can detect red-shifted starlight from  $L^*$  galaxy at  $z=5$ , providing our first look at the stellar content of the Early Universe at rest wavelengths beyond 1  $\mu$ m*